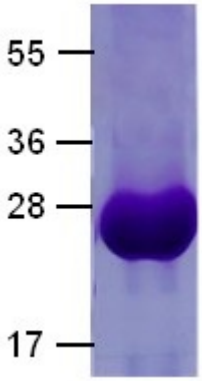
CDC42(G12V) PROTEIN

Cdc42(G12V) Mutant

Cat. #: 10109
Product Name: Cdc42 Protein G12V mutant
Synonyms: Cell division cycle 42, G25K, CDC42Hs
Source: Human, recombinant full length, His6-tag
Expression Host Species: E. col
Molecular Weight: 21 kDa
Purity: >95% by SDS-PAGE
Introduction: Small GTPases are a super-family of cellular signaling regulators. Cdc42 belongs to the Rho sub-family of GTPases that regulate cell motility, cell division, and gene transcription. GTP binding increases the activity of Cdc42, and the hydrolysis of GTP to GDP renders it inactive. GTP hydrolysis is aided by GTPase activating proteins (GAPs), while exchange of GDP for GTP is facilitated by guanine nucleotide exchange factors (GEFs).
Amino Acid Sequence (1-191, G12V)
MQTIKCVVVGDVAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRL RPLSYPQTDVFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQ KPITPETAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVLL
Properties
Physical Appearance (form): Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.
Physical Appearance (form): White or clear
Concentration: 1 mg/mL
Storage: -80°C
Preparation Instructions:
Centrifuge the vial before open the cap and reconstitute in water. Adding of 10 mM β-mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl β-D-maltoside (DoDM) or polyethylene detergents (e.g. C12E10) also help to stabilize the protein. Avoid repeated freezing and thawing after reconstitution. The purity of His-tagged Cdc42 G12V was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.



References:

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